IN THE CLAIMS:

Claims 1, 3-16, 19-21, 23, 25-36, 49, and 40 have been amended herein. All of the pending claims 1 through 40 are presented below. This listing of claims will replace all prior versions and listings in the application. Please enter these claims as amended.

1. (Currently Amended) A method for hardening at least a portion of a gate oxide layer on a substrate, the method comprising:

forming an oxide layer over at least a portion of the substrate;

forming a resist over at least a portion of the oxide layer;

patterning the resist to create at least one exposed area of the oxide layer;

partially hardening the at least one exposed area of the oxide layer using a remote plasma

nitrogen hardening treatment;

forming a second resist over at least a portion of the oxide layer;

patterning the second resist to create at least one exposed area of the oxide layer; and conducting a second remote plasma nitrogen hardening treatment to create at least one second hardened area and at least one non-nonhardened area within the oxide layer.

- 2. (Original) The method of claim 1, wherein the substrate comprises a silicon substrate.
- 3. (Currently Amended) The method of claim 2, wherein forming an the oxide layer over at least a portion of the substrate comprises thermally growing an oxide layer.
- 4. (Currently Amended) The method of claim 1, wherein <u>partially</u> hardening the at least one exposed area of the oxide layer using the remote plasma nitrogen hardening treatment comprises using a high-density plasma remote plasma nitrogen hardening treatment.

- 5. (Currently Amended) The method of claim 4, wherein using the high high-density plasma remote plasma nitrogen hardening treatment comprises using a process-run for run in the a range of approximately 1 second to approximately 30 seconds at a temperature of between about 30° C and about 90° C using about 800 watts to 3000 watts of power.
- 6. (Currently Amended) The method of claim 1, wherein forming the oxide layer over-at the at least a portion of the substrate comprises forming an oxide layer having a thickness of about-30 / 30 / to about-50 / 50 /.
- 7. (Currently Amended) The method of claim 1, wherein patterning the resist to create at the at least one exposed area of the oxide layer comprises patterning the resist to create a plurality of exposed areas of the oxide layer.
- 8. (Currently Amended) A method for fabricating an integrated circuit device including N-channel and P-channel devices having selectively hardened gate oxides on a substrate, the method comprising:

forming an oxide layer over at least a portion of the substrate;

forming a first resist over at least a portion of the oxide layer;

patterning the first resist to create at least one exposed area of the oxide layer and at least one covered area of the oxide layer;

conducting a first remote plasma nitrogen treatment to create at least one partially hardened area within the oxide layer and at least one non-nonhardened area within the oxide layer; stripping the first resist;

growing at least a portion of the at least one non-nonhardened area within the oxide layer using a thermal oxidation process to form at least one thick area within the oxide layer;

forming a second resist over at least a portion of the at least one thick area within the oxide layer; patterning the second resist to create at least one exposed area of the at least one thick area; and conducting a second remote plasma nitrogen treatment to create at least one second hardened

area and at least one second non-nonhardened area within the at least one thick area of the oxide layer.

- 9. (Currently Amended) The method of claim 8, wherein the substrate comprises a silicon substrate and forming the oxide layer over-at the at least a portion of the substrate comprises thermally growing the oxide layer from the silicon substrate.
- 10. (Currently Amended) The method of claim 8, wherein conducting the first remote plasma nitrogen treatment to create-at the at least one hardened area within the oxide layer and-at the at least one non-nonhardened area within the oxide layer comprises conducting a high-density plasma remote plasma nitrogen treatment.
- 11. (Currently Amended) The method of claim 10, wherein conducting the high high-density plasma remote plasma nitrogen treatment comprises conducting a process run for approximately 1 second to approximately 10 seconds at between about 30° C and about 90° C using about 800 watts to 3000 watts of power.
- 13. (Currently Amended) The method of claim 8, further comprising processing the substrate and the oxide layer to produce an integrated circuit device including at least one P-channel device including a hardened gate oxide and at least one N-channel device including a non-nonhardened gate oxide.

14. (Currently Amended) A method for fabricating an integrated circuit device including N-channel and P-channel devices on a substrate, each N-channel and P-channel device having selectively hardened gate oxides, the method comprising:

forming an oxide layer over at least a portion of the substrate;

forming a first resist over at least a portion of the oxide layer;

patterning the first resist to create at least one exposed area of the oxide layer and at least one covered area of the oxide layer;

conducting a first remote plasma nitrogen hardening treatment to create at least one partially hardened area within the oxide layer and at least one non-nonhardened area within the oxide layer;

stripping the first resist;

growing at least a portion of the at least one non-nonhardened area within the oxide layer using a thermal oxidation process to form at least one thick area within the oxide layer; forming a second resist over at least a portion of the at least one thick area within the oxide layer; patterning the second resist to create at least one exposed area of the at least one thick area; and conducting a second remote plasma nitrogen hardening treatment to create at least one second hardened area and at least one second non-nonhardened area within the at least one thick area of the oxide layer.

15. (Currently Amended) A method for fabricating a dynamic random access memory device on a substrate comprising:
forming an oxide layer over at least a portion of the substrate;
forming a resist over at least a portion of the oxide layer;
patterning the resist to create at least one exposed area of the oxide layer;
partially hardening the at least one exposed area of the oxide layer using a remote plasma nitrogen hardening treatment;

processing the substrate and the oxide layer to create at least one P-channel device having a hardened oxide and an array of N-channel devices, each of the N-channel devices included within the array having a non-nonhardened gate oxide; forming a second resist over at least a portion within the oxide layer; patterning the second resist to create at least one second exposed area of the oxide layer; and conducting a second remote plasma nitrogen hardening treatment to create at least one second hardened area and at least one second non-nonhardened area within the oxide layer.

- 16. (Currently Amended) The method of claim 15, wherein the substrate comprises a silicon substrate and forming—an the oxide layer over the substrate comprises growing an oxide layer from the silicon substrate.
- 17. (Original) The method of claim 15, wherein hardening the at least one exposed area of the oxide layer using the remote plasma nitrogen hardening treatment comprises using a high-density plasma remote plasma nitrogen hardening treatment.
- 18. (Original) The method of claim 17, wherein using the high-density plasma remote plasma nitrogen hardening treatment comprises using a process run for approximately 1 second to approximately 30 seconds at between about 30° C and about 90° C using about 800 watts to about 3000 watts of power.
- 19. (Currently Amended) The method of claim 15, wherein forming the oxide layer over the substrate comprises forming an oxide layer having a thickness of about $30^{'}$ to about $50^{'}$ 50 $^{'}$.
- 20. (Currently Amended) The method of claim 15, wherein patterning the resist to create at the at least one exposed area of the oxide layer comprises patterning the resist to create a plurality of exposed areas of the oxide layer.

21. (Currently Amended) A method for hardening at least a portion of a gate oxide layer on a substrate, the method comprising:

forming an oxide layer over at least a portion of the substrate;

forming a resist over at least a portion of the oxide layer;

patterning the resist to create at least one exposed area of the oxide layer;

partially hardening the at least one exposed area of the oxide layer using a remote plasma nitrogen hardening treatment forming a partially hardened oxide layer having a first thickness;

forming a second resist over at least a portion of the oxide layer;

patterning the second resist to create at least one second exposed area of the oxide layer; and

conducting a second remote plasma nitrogen hardening treatment to create at least one second

hardened area having a second thickness and at least one non-nonhardened area within

the oxide layer.

- 22. (Original) The method of claim 21, wherein the substrate comprises a silicon substrate.
- 23. (Currently Amended) The method of claim 22, wherein forming-an_the oxide layer over at least a portion of the substrate comprises thermally growing an oxide layer.
- 24. (Original) The method of claim 21, wherein hardening the at least one exposed area of the oxide layer using the remote plasma nitrogen hardening treatment comprises using a high-density plasma remote plasma nitrogen hardening treatment.
- 25. (Currently Amended) The method of claim 24, wherein using the high high-density plasma remote plasma nitrogen hardening treatment comprises using a process-run for run in-the a range of approximately 1 second to approximately 30 seconds at a temperature of between about 30° C and about 90° C using about 800 watts to 3000 watts of power.

- 26. (Currently Amended) The method of claim 21, wherein forming the oxide layer over the at least a portion of the substrate comprises forming an oxide layer having a thickness of about 30 ' to about 50 ' 50 '.
- 27. (Currently Amended) The method of claim 21, wherein patterning the resist to create at the at least one exposed area of the oxide layer comprises patterning the resist to create a plurality of exposed areas of the oxide layer.
- 28. (Currently Amended) A method for fabricating an integrated circuit device including N-channel and P-channel devices having selectively hardened gate oxides on a substrate, the method comprising:

forming an oxide layer over at least a portion of the substrate;

forming a first resist over at least a portion of the oxide layer;

patterning the first resist to create at least one exposed area of the oxide layer and at least one covered area of the oxide layer;

conducting a first remote plasma nitrogen treatment to create at least one partially hardened area within the oxide layer having a first thickness and at least one non-nonhardened area having a first thickness within the oxide layer;

stripping the first resist;

growing at least a portion of the at least one non-nonhardened area within the oxide layer using a thermal oxidation process to form at least one thick area within the oxide layer; forming a second resist over at least a portion of the at least one thick area within the oxide layer; patterning the second resist to create at least one exposed area of the at least one thick area; and conducting a second remote plasma nitrogen treatment to create at least one second hardened area having another thickness and at least one second non-nonhardened area within the at least one thick area of the oxide layer.

- 29. (Currently Amended) The method of claim 28, wherein the substrate comprises a silicon substrate and forming the oxide layer over-at the at least a portion of the substrate comprises thermally growing the oxide layer from the silicon substrate.
- 30. (Currently Amended) The method of claim 28, wherein conducting the first remote plasma nitrogen treatment to create-at the at least one hardened area within the oxide layer and at the at least one non-nonhardened area within the oxide layer comprises conducting a high-density plasma remote plasma nitrogen treatment.
- 31. (Currently Amended) The method of claim 30, wherein conducting the high high-density plasma remote plasma nitrogen treatment comprises conducting a process run for approximately 1 second to approximately 10 seconds at between about 30° C and about 90° C using about 800 watts to 3000 watts of power.
- 32. (Currently Amended) The method of claim 28, wherein forming the oxide layer over the substrate comprises forming an oxide layer having a thickness of about 30 10 to about 50 10 10 and growing at least a portion of the at least one non-nonhardened area within the oxide layer using the thermal oxidation process to form-at the at least one thick area within the oxide layer comprises growing at least a portion of the at least one non-nonhardened area to a thickness of about 50 10 10 about 70 10 10.
- 33. (Currently Amended) The method of claim 28, further comprising processing the substrate and the oxide layer to produce an integrated circuit device including at least one P-channel device including a hardened gate oxide and at least one N-channel device including a non-nonhardened gate oxide.

34. (Currently Amended) A method for fabricating an integrated circuit device including N-channel and P-channel devices on a substrate, each N-channel and P-channel device having selectively hardened gate oxides, the method comprising:

forming an oxide layer over at least a portion of the substrate;

forming a first resist over at least a portion of the oxide layer;

patterning the first resist to create at least one exposed area of the oxide layer and at least one covered area of the oxide layer;

conducting a first remote plasma nitrogen hardening treatment to create at least one partially hardened area within the oxide layer having a first thickness and at least one nonhardened area within the oxide layer;

stripping the first resist;

growing at least a portion of the at least one non-nonhardened area within the oxide layer using a thermal oxidation process to form at least one thick area within the oxide layer having a second thickness;

forming a second resist over at least a portion of the at least one thick area within the oxide layer; patterning the second resist to create at least one exposed area of the at least one thick area; and conducting a second remote plasma nitrogen hardening treatment to create at least one second hardened area and at least one second non-nonhardened area within the at least one thick area of the oxide layer.

35. (Currently Amended) A method for fabricating a dynamic random access memory device on a substrate comprising:

forming an oxide layer over at least a portion of the substrate;

forming a resist over at least a portion of the oxide layer;

patterning the resist to create at least one exposed area of the oxide layer having a first thickness; partially hardening the at least one exposed area of the oxide layer using a remote plasma nitrogen hardening treatment;

processing the substrate and the oxide layer to create at least one P-channel device having a hardened oxide and an array of N-channel devices, each of the N-channel devices included within the array having a non-nonhardened gate oxide; forming a second resist over at least a portion within the oxide layer; patterning the second resist to create at least one second exposed area of the oxide layer; and conducting a second remote plasma nitrogen hardening treatment to create at least one second hardened area having a second thickness and at least one non-nonhardened area within the oxide layer.

- 36. (Currently Amended) The method of claim 35, wherein the substrate comprises a silicon substrate and forming-an the oxide layer over the substrate comprises growing an oxide layer from the silicon substrate.
- 37. (Original) The method of claim 35, wherein hardening the at least one exposed area of the oxide layer using the remote plasma nitrogen hardening treatment comprises using a high-density plasma remote plasma nitrogen hardening treatment.
- 38. (Original) The method of claim 37, wherein using the high-density plasma remote plasma nitrogen hardening treatment comprises using a process run for approximately 1 second to approximately 30 seconds at between about 30° C and about 90° C using about 800 watts to about 3000 watts of power.
- 39. (Currently Amended) The method of claim 35, wherein forming the oxide layer over the substrate comprises forming an oxide layer having a thickness of about 30 ' to about 50 ' 50 '.

40. (Currently Amended) The method of claim 35, wherein patterning the resist to create at the at least one exposed area of the oxide layer comprises patterning the resist to create a plurality of exposed areas of the oxide layer.